

BRUHATH BANGALORE MAHANAGAR PALIKE

Modified Schedule-B

Part of Work: Modified Estimate for Improvements to road 8th,9th,10th main and 7th A, 8th A Cross, 5th B, 6th cross and other cross road at MEI layout and 8th B, 9th cross, 5th,18th Main and Other cross roads and Reconstruction of CC roads at MEI Layout in Ward No.14 Dasarahalli Sub-division Package No-DZ 2017-18 (2)(4 Works)

Item No	Item of Work	Unit	As per Modified Estimate			
			Qty Upto 125%	Rate	Qty Above 125%	Rate
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 metres and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.	Cum	1424.42	196.27	0.00	0.00
2	Removing BS Slab and stacking etc Complete.	Sqm	1976.64	69.01	0.00	0.00
3	Refixing stone slabs of drains and pointing in CM (1:3)	Sqm	0.00	84.59	0.00	0.00
4	Providing Granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing, curing etc complete 10cms thick.	Sqm	0.00	867.03	0.00	0.00
5	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications.	Sqm	0.00	0.00	0.00	0.00
6	Earthwork in soil with hydraulic excavator of 0.90cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes. In accordance with requirements of lines, grades and cross sections and transporting to the embankment location and complete as per specifications.	Cum	755.54	156.20	0.00	0.00
7	Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material	Cum	0.00	1748.32	0.00	0.00

No	Item of Work	Unit	As per Modified Estimate			
			Qty Upto 125%	Rate	Qty Above 125%	Rate
8	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3	Cum	3284.96	5.57	0.00	0.00
9	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	Cum	656.99	1856.48	0.00	0.00
10	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502	Sqm	0.00	28.94	0.00	0.00
11	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501	Sqm	6307.84	3.34	0.00	0.00
12	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5	Sqm	7599.94	13.36	0.00	0.00
13	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 -using 100/120 TPH capacity H.M.P. with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	64.61	7476.02	0.00	0.00

No	Item of Work	Unit	As per Modified Estimate			
			Qty Upto 125%	Rate	Qty Above 125%	Rate
14	Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen	Cum	252.31	8524.47	0.00	0.00
15	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	Sqm	97.80	569.86	0.00	0.00
16	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	158.40	5416.97	0.00	0.00

No	Item of Work	Unit	As per Modified Estimate			
			Qty Upto 125%	Rate	Qty Above 125%	Rate
17	Cement Concrete Pavement. Construction of Un-Reinforced Plain Cement Concrete Pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2 design mix, with 25 mm and down size graded granite metal coarse and fine aggregates, with superplasticiser @31. Its conforming to IS 9103 - 1999 Reaffirmed - 2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approval fixed side form work (Steel Channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing. Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation, membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (At 270 kg, per cum coarse aggregate @ 0.69 cum and fine aggregate @ 0.46 cum) replacing 25% (90 Kg) of cement content with Ground Granulated Blast Furnace Slag in mix design.	Cum	492.74	6528.86	0.00	0.00
18	Vaccum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.	Sqm	3284.96	100.17	0.00	0.00
19	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot bitumen fillers, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.	Rmt	718.75	128.00	544.75	128.00
EIRL 1	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -Fe 500	MT	29.25	97295.12	0.00	0.00

No	Item of Work	Unit	As per Modified Estimate			
			Qty Upto 125%	Rate	Qty Above 125%	Rate
EIRL 2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 Kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc, complete excluding cost of steel as per MORTH specification No. 1500,1700,2200 including cost of materials, labour, HOM of complete as per specifications.-do-wall & bottom 15cm	Cum	445.01	7423.71	0.00	0.00
EIRL 3	Precast Slab 100mm thick (data rate)	Sqm	1137.06	2453.85	0.00	0.00
EIRL 4	Precast Slab 250mm thick (data rate)	Sqm	81.54	5688.90	0.00	0.00
EIRL 5	Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down sizegraded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub-base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.MORTH Specification No. 601 -do-with OPC at 150 Kg/cum and coarse aggregate 0.86 cum, fine aggregate 0.58cum using concrete Batch mix Plant at 75 cum/hr capacity with slip form paver with electronic sensor	Cum	328.50	3990.11	0.00	0.00

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